

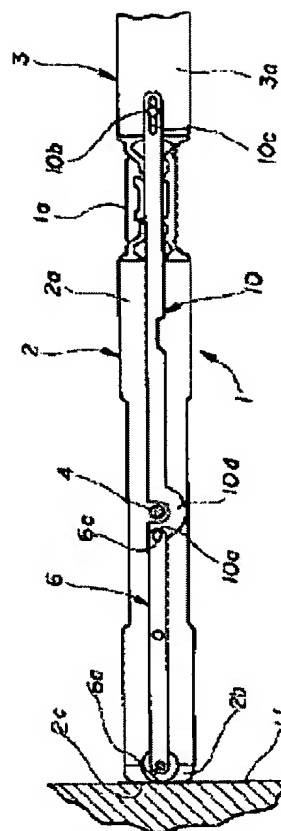
CONTACT PREVENTIVE DEVICE FOR FOLDING DOOR

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Abstract of JP2001107639

PROBLEM TO BE SOLVED: To prevent the damage of a folding door due to the contacts of the folding door and a wall surface or the mutual folding doors, and to prevent impossible opening and closing due to the overlapping of the mutual folding doors. **SOLUTION:** The contact preventive device disposed to a side-end panel 2 and the next intermediate panel 3 of the side-end panel in the folding door 1 rotatably installed to a runner in a rail at the central sections of the upper end faces 2a, 3a of each panel 2, 3 has the first link 6, in which one end section 6a is positioned on the side end face 2c of the side-end panel and which is rotatably supported horizontally between the center of rotation 4 of the upper end face of the side-end panel and the side end face at a central section when the folding door is spread, the second link 10, in which one end section 10a is rotatably supported horizontally to the other end section 6c of the first link while the other end 10b is rotatably supported horizontally in a rockable manner through a slot 10c at the end section of the side-end panel side of the upper end face of the intermediate panel, and a guide traveling in the rail while being rotatably installed at one end section of the first link. The position of the center of rotation of the first link is set so that the guide is brought near to the runner of the side-end panel when the folding door is folded up.



1: 折り戸
 2: 側端パネル
 3: 中間パネル
 4: 回転中心
 6: 第1リンク
 10: 第2リンク
 11: レール
 2a: 側端パネルの上端面
 2b: 側端パネルの側端面
 2c: 側端パネルの側端面
 3a: 中間パネルの上端面
 3b: 中間パネルの側端面
 3c: 中間パネルの側端面
 6a: 第1リンクの一端部
 6b: 第1リンクの中間部
 6c: 第1リンクの他端部
 10a: 第2リンクの一端部
 10b: 第2リンクの中間部
 10c: 第2リンクの他端部
 10d: クラックガイド
 11: レール
 4: 取付部

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